Remote Sensing Applications Division (RSAD)

CDR Program Office

Weekly Report for Jan 16, 2015
Ed Kearns, Chief

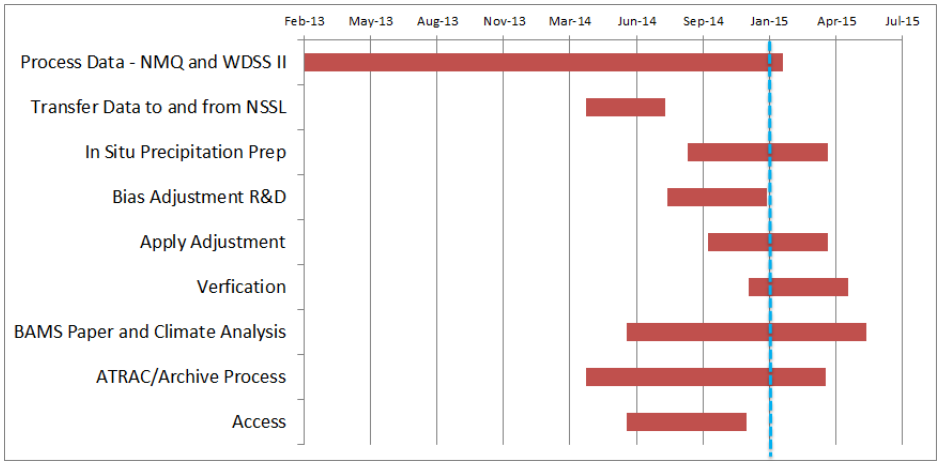
CDR Program Office
NOAA NEXRAD Reanalysis

Project Manager:
B. Nelson
updated: Jan 12

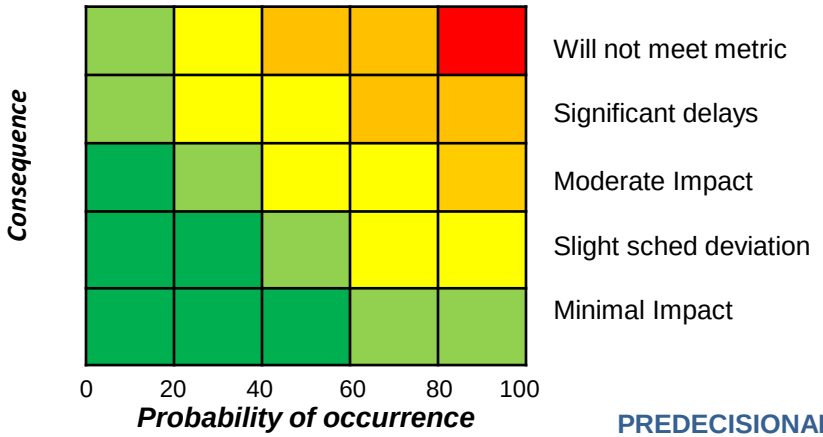
Weekly Report

NNR – NOAA NEXRAD Reanalysis

Assessment of bias at 5-minute scale for 4-5 yrs
Bias assessment for 10 yrs of data at hourly scale
Bias assessment for 10 yrs of data at daily scale
5-minute data is being processed
Hourly IDW procedure is being implemented
Assessment of bias at hourly scale is underway for full years (2008-2011)
Hourly scale IDW is being tested and set up for processing for pilot domains
Re-do daily gauge-radar processing to consider obs time for COOP data - Only minor improvement for daily



Risk Matrix



Risk and Mitigation

No Risk at this time

PREDECISIONAL DRAFT INFORMATION

= On-track
= Potential management action required
= Management attention required

1/15/2015

CDR Program Office
ISCCP Processing @ NCDC

Project Manager:
A. Young/K. Knapp
Updated: Jan. 8

Weekly Status Update

- Alisa is back so progress should accelerate.
- Updated project timeline.
- Preparing for QC of input satellite data for 2000s
- Awaiting final ancillary data delivery
- Inter-comparing test month run at NCDC and CCNY
- Continuing to pre-process data.
- Ordering replacement data from EUMETSAT
- Sent beta data to users for feedback.
- Preparing ancillary calibration data for processing.
- Working on ISCCP Website for NCDC
- Preparing data for Beta users (preliminary output)
- Prepared space and scripts for ISCCP processing on CICS server.
- Received pre-processing software to QC input files (GEO/B1 & LEO/AVHRR)

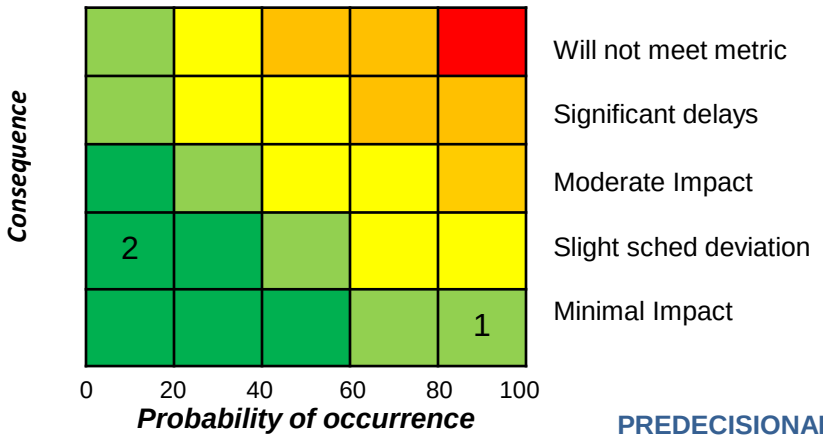
Objectives

Produce ISCCP cloud products at NCDC following IOC R2O procedures. Plan for routine updates to follow.

Schedule

• Start Date	1983	
• Input Data QC	Jan-Feb. 2015	
• Data Processing	Feb-Mar 2015	
• QC & Analysis	Mar-Apr 2015	
• Ext. PoR	Apr-May 2015	
• Archive	June	2015
• Routine updates start	Oct. 2015	

Risk Matrix



Risk and Mitigation

1. Delivery of software late and other delays.
   Revised schedule
2. CICS server space
   Meeting with O. Brown to discuss.

PREDECISIONAL DRAFT INFORMATION

8/7/2014

= On-track = Potential management action required = Management attention required

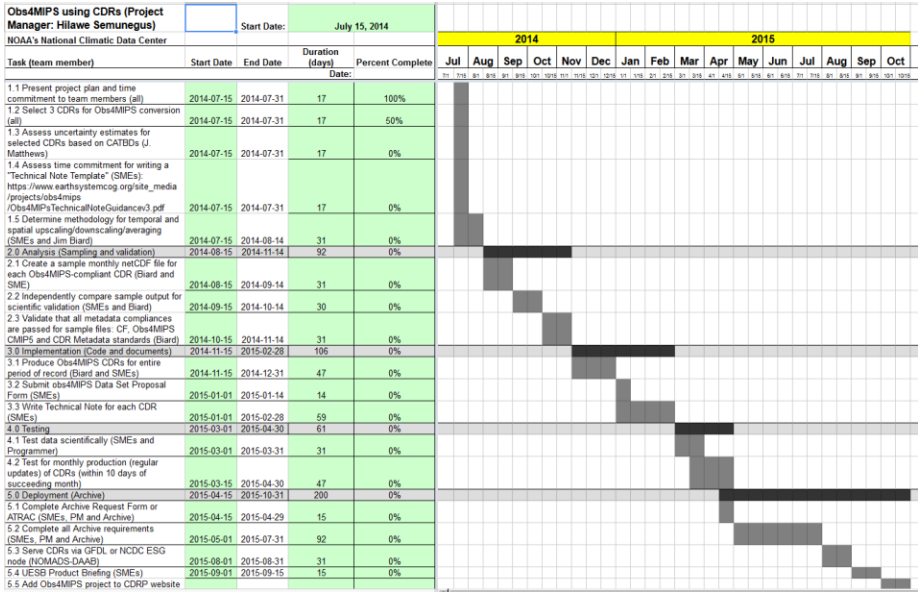
CDR Program Office
Obs4MIPS

Project Manager:
H. Semunegus
Updated: Jan 15

Weekly Status Update

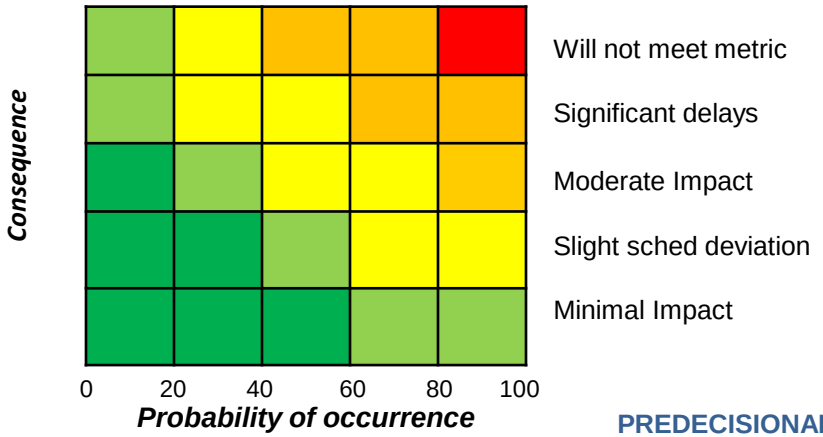
- Semunegus is preparing a brief to EC on this project on 1/26 (scope, archive and ESG server location will be emphasized)
- Biard is preparing to fully process all the Obs4MIPs variables (or all CDRs) by end of next week as scheduled
- Biard completed a sample file for each projected variable.
- Biard prototyped a conversion utility.
- Scoping out a potential third dataset for initial transition.
- Test data was converted to Obs4MIPS format.
- Planning meeting completed and schedule revised.
- Initial datasets selected for Obs4MIPS: OISST and OLR
- Lots of emails and investigations ongoing.
- Many CDRs can't work in Obs4MIPS: all FCDRs and all Mean Layer Temperatures aren't fit for this purpose.
- Kickoff meeting held 7/18
- Initial plans developed.

Initial datasets: Daily OLR, OISST, Sea Ice



Obs4MIPS using CDRs (Project Manager: Hilawe Semunegus) NOAA's National Climatic Data Center	Start Date:	July 15, 2014		
Task (team member)	Start Date	End Date	Duration (days)	Percent Complete
1.1 Present project plan and time commitment to team members (all)	2014-07-15	2014-07-31	17	100%
1.2 Select 3 CDRs for Obs4MIPS conversion (all)	2014-07-15	2014-07-31	17	50%
1.3 Assess uncertainty estimates for selected CDRs based on CATBDs (J. Matthews)	2014-07-15	2014-07-31	17	0%
1.4 Assess time commitment for writing a "Technical Note Template" (SMEs): https://www.earthsystemcog.org/site_media/projects/obs4mips/Obs4MIPsTechnicalNoteGuidancev3.pdf	2014-07-15	2014-07-31	17	0%
1.5 Determine methodology for temporal and spatial upscaling/downscaling/averaging (SMEs and Jim Biard)	2014-07-15	2014-08-14	31	0%
2.0 Analysis (Sampling and validation)	2014-08-15	2014-11-14	92	0%
2.1 Create a sample monthly netCDF file for each Obs4MIPS-compliant CDR (Biard and SME)	2014-08-15	2014-09-14	31	0%
2.2 Independently compare sample output for scientific validation (SMEs and Biard)	2014-09-15	2014-10-14	30	0%
2.3 Validate that all metadata compliances are passed for sample files: CF, Obs4MIPS CMIP5 and CDR Metadata standards (Biard)	2014-10-15	2014-11-14	31	0%
3.0 Implementation (Code and documents)	2014-11-15	2015-02-28	106	0%
3.1 Produce Obs4MIPS CDRs for entire period of record (Biard and SMEs)	2014-11-15	2014-12-31	47	0%
3.2 Submit obs4MIPS Data Set Proposal Form (SMEs)	2015-01-01	2015-01-14	14	0%
3.3 Write Technical Note for each CDR (SMEs)	2015-01-01	2015-02-28	59	0%
4.0 Testing	2015-03-01	2015-04-30	61	0%
4.1 Test data scientifically (SMEs and Programmer)	2015-03-01	2015-03-31	31	0%
4.2 Test for monthly production (regular updates) of CDRs (within 10 days of succeeding month)	2015-03-15	2015-04-30	47	0%
5.0 Deployment (Archive)	2015-04-15	2015-10-31	200	0%
5.1 Complete Archive Request Form or ATRAC (SMEs, PM and Archive)	2015-04-15	2015-04-29	15	0%
5.2 Complete all Archive requirements (SMEs, PM and Archive)	2015-05-01	2015-07-31	92	0%
5.3 Serve CDRs via GFDL or NCDC ESG node (NOMADS-DAAB)	2015-08-01	2015-08-31	31	0%
5.4 UESB Product Briefing (SMEs)	2015-09-01	2015-09-15	15	0%
5.5 Add Obs4MIPS project to CDRP website				

Risk Matrix



Risk and Mitigation

- Potential for "project creep" or possible schedule slippage after EC meeting (1/26) if:
  - EC insists on waiting on the NCDC ESG node to be deployed instead of going ahead and serving this at the GFDL ESG node (fast pre-approved process)
  - EC insists that we have to archive this dataset or have a "process preservation" documentation in place
  - EC asks for more CDRs/products to be piggybacked to this project before it's completed

PREDECISIONAL DRAFT INFORMATION

8/7/2014

= On-track = Potential management action required = Management attention required

CDR Program Office

UW HIRS Processing @ NCDC

Project Manager:
A. Young
Updated: Jan 8

Weekly Status Update

- Alisa is back so progress should accelerate. Still waiting for 10 yr dataset delivery. This data is ready to compare with in-house production. However, full dataset will require Andy's L2 input data which could potentially cause some delays. It just depends on how quickly we can get his product in.
- Final code delivered from UW.
- S. Stevens has begun preparing scripts for integrated reprocessing. - Will Tag up with Scott to get status update. Test months have been reported as "successful runs" for 1 month of data but need to confirm with some analytics.
- Found space to temporarily store 10 TB of 10 yrs of product.
- Waiting for final code delivery from Wisconsin.
- Preparing plan for processing on CICS server.
- Working on finding space for the 10TB of input data (pixel level cloud data).

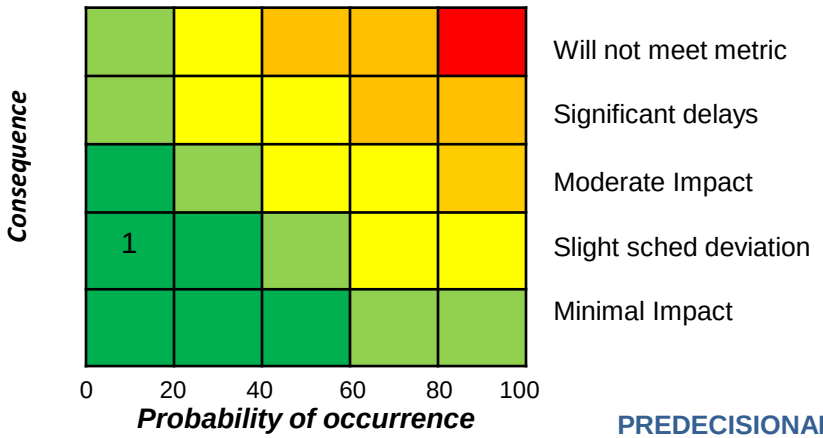
Objectives

Produce global total precipitable water and cloud top pressure estimates from HIRS data using the UW algorithm (P. Menzel).

Schedule

- Start Date — December 2014
- End Date — March 2014

Risk Matrix



Risk and Mitigation

1. Disk space may not be available.
Impact: Could delay processing.

PREDECISIONAL DRAFT INFORMATION

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CDR Program Office
Albedo of the Americas

Project Manager:
J. Matthews
Updated: Jan 15

Weekly Status Update

- Met with Otis, Scott W, and Jonathan B of CICS to discuss available resources on CICS cluster on Jan 14. There is much transition with resources currently occurring but there is optimism these changes will positively impact this project and that there should be sufficient space and CPUs available.
- Continued validation via collaboration with SAMSI (at NCSU). Presented preliminary work at AMS with good feedback.
- Loaned 42 TB of disk space allocation to ISCCP Project

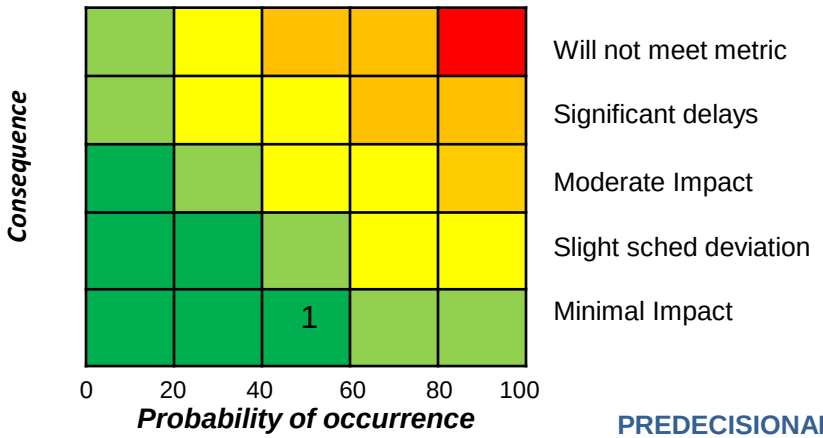
Objectives

Produce a daily land surface albedo product over North and South America from GOES-GVAR observations for 1995-2014.

Schedule (to be updated soon)

- Start Date January 2015
- End Date June 2016

Risk Matrix



Risk and Mitigation

1. Insufficient disk space available

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